Amendments to the Claims:

A listing of the entire set of pending claims (including amendments to the claims, if any) is submitted herewith per 37 CFR 1.121. This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1-10 (Canceled)

11. (Previously presented) A radio system, comprising:

a plurality of spatially separate radio units identifiable by a set of radio unit identifications;

an interrogating station in communication with the plurality of radio units; a central station in communication with the interrogating station;

a transponding station identifiable by a transponding station identification, the transponding station in communication with both the interrogating station and the plurality of radio units;

wherein, when said central station is required to determine a location of said transponding station, said central station transmits an enquiry signal to said interrogating station, said enquiry signal including said transponding station identification; and

wherein said interrogating station rebroadcasts the enquiry signal to said transponding station and transmits individual wake-up messages to said radio units, each wake-up message including a corresponding radio unit identification.

12. (Previously presented) The radio system of claim 11,

wherein, in response to hearing the transponding station identity in the enquiry signal, said transponding station transmits a reply signal to said radio units, the reply signal including the transponding station identification.

13. (Previously presented) The radio system of claim 12,

wherein, in response to receiving the wake-up messages and the reply signal, each radio unit identifies said transponding station from the reply signal and determines a received signal strength of the reply signal.

14. (Previously presented) The radio system of claim 13,

wherein said radio units and said interrogating station relay the transponding station identification and the determined received signal strengths of the relay signal together with a set of radio unit identifications to the said station.

15. (Previously presented) The radio system of claim 14,

wherein said central station computes a location of said transponding station relative to the location of each radio unit based on the determined received signal strengths of the relay signal, the set of radio unit identifications and the transponding station identification.

(Previously presented) The radio system of claim 11.

wherein the transponding station transmits the reply signal at a first frequency corresponding substantially to a second frequency to which the radio units are tuned.

17. (Previously presented) The radio system of claim 11,

wherein the transponding station receives and transmits on a first frequency; and

wherein said radio units and said interrogating station include frequency changing means for changing at least their receive frequencies to the first frequency.

(Previously presented) The radio system of claim 11,

wherein the transponding station is adapted to receive the enquiry signal at a first frequency and to transmit the relay signal at a second frequency.

19. (Previously presented) A method of operating a radio system including a plurality of spatially separate radio units, an interrogating station in communication with the plurality of radio units, a central station in communication with the interrogating station and a transponding station in communication with both the interrogating station and the plurality of radio units, said method comprising:

transmitting an enquiry signal from the central station to the interrogating station in response to a requirement for the central station to determine a location of the transponding station, the enquiry signal including a transponding station identification corresponding to the transponding station;

transmitting the enquiry signal from the interrogating station to the transponding station; and

transmitting individual wake-up messages from the interrogating station to each radio unit, each wake-up message including a corresponding radio unit identification.

20. (Previously presented) The method of claim 19, further comprising:

transmitting a reply signal from the transponding station to the radio units in response to the transponding station hearing the transponding station identification in the enquiry signal and the radio units receiving the wake-up messages, the reply signal including the transponding station identity.

21. (Previously presented) The method of claim 20, further comprising:

operating each radio unit to identify the transponding station from the reply signal and to determine a received signal strength of the reply signal in response to receiving the reply signal.

22. (Previously presented) The method of claim 21, further comprising:

relaying the transponding station identification and the determined received signal strengths of the relay signal together with a set of radio unit identifications from the radio units and the interrogating station to the central station.

23. (Previously presented) The method of claim 22, further comprising:

operating the central station to compute the location of the transponding station relative to the location of each radio unit based on the transponding station identification and the determined received signal strengths of the relay signal together with the set of radio unit identifications.

24. (Previously presented) The method of claim 19,

wherein the transponding station transmits the reply signal at a first frequency corresponding substantially to a second frequency to which the radio units are tuned.

25. (Previously presented) The method of claim 19.

wherein the transponding station receives and transmits on a first frequency; and

wherein the radio units and the interrogating station include frequency changing means for changing at least their receive frequencies to the first frequency.

26. (Previously presented) The method of claim 19,

wherein the transponding station is adapted to receive the enquiry signal at a first frequency and to transmit the relay signal at a second frequency.

27. (Currently amended) A <u>radio unit in a system that includes including a plurality of spatially separate radio units, an interrogating station in communication with the plurality of radio units, a central station in communication with the interrogating station and a transponding station in communication with both the interrogating station and the plurality of radio units, a first the radio unit comprising:</u>

a transceiver means for receiving a wake-up message transmitted from the interrogating station, the transceiver receiving and a reply signal transmitted from said transponding station in response to an enquiry signal that is transmitted from the interrogating station to the transponding station; and

a signal strength determining means measuring device for determining a received signal strength measure of the reply signal in response to a receiving both the wake-up message and the reply signal.

28. (Currently amended) The first-radio unit of claim 27,

wherein said-first radio unit operates said-the transceiver means to transmit transmits the determined received signal strength measure of the relay signal, a radio unit identification corresponding to said first radio unit, and a transponding station identification corresponding to the transponding station to whereby the central station that computes a location of the transponding station relative to the location of said first radio unit based on the determined received signal strength measure strengths of the relay signal, the radio unit identification corresponding to the transponding station and the transponding station identification corresponding to the transponding station.